

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,092
Source: JFWP
Date Processed by STIC: 01/03/2006

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,092

DATE: 01/03/2006
TIME: 11:34:57

Input Set : A:\034123-109.ST25.txt
Output Set: N:\CRF4\01032006\J561092.raw

3 <110> APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
4 DOWDY, Steven F
5 WADIA, Jehangir S
7 <120> TITLE OF INVENTION: POLYPEPTIDE TRANSDUCTION AND FUSOGENIC PEPTIDES
9 <130> FILE REFERENCE: 034123-109
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/561,092
C--> 12 <141> CURRENT FILING DATE: 2005-12-16
14 <150> PRIOR APPLICATION NUMBER: 60/480,065
15 <151> PRIOR FILING DATE: 2003-06-20
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn version 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 86
23 <212> TYPE: PRT
24 <213> ORGANISM: Unknown
26 <220> FEATURE:
27 <223> OTHER INFORMATION: transducing protein
29 <400> SEQUENCE: 1
31 Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
32 1 5 10 15
35 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
36 20 25 30
39 His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
40 35 40 45
43 Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
44 50 55 60
47 His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp
48 65 70 75 80
51 Pro Thr Gly Pro Lys Glu
52 85
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 20
57 <212> TYPE: PRT
58 <213> ORGANISM: Unknown
60 <220> FEATURE:
61 <223> OTHER INFORMATION: HA2 analog
63 <400> SEQUENCE: 2
65 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Gly Gly Trp Thr Gly
66 1 5 10 15
69 Met Ile Asp Gly
70 20
73 <210> SEQ ID NO: 3
74 <211> LENGTH: 20

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75 <212> TYPE: PRT
76 <213> ORGANISM: Unknown
78 <220> FEATURE:
79 <223> OTHER INFORMATION: HA2 analog
81 <400> SEQUENCE: 3
83 Gly Leu Phe Glu Ala Ile Ala Glu Phe Ile Glu Gly Gly Trp Glu Gly
84 1 5 10 15
87 Leu Ile Glu Gly
88 20
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 5
93 <212> TYPE: PRT
94 <213> ORGANISM: Unknown
96 <220> FEATURE:
97 <223> OTHER INFORMATION: linker moiety
99 <400> SEQUENCE: 4
101 Gly Gly Gly Gly Ser
102 1 5
105 <210> SEQ ID NO: 5
106 <211> LENGTH: 6
107 <212> TYPE: PRT
108 <213> ORGANISM: Unknown
110 <220> FEATURE:
111 <223> OTHER INFORMATION: linker moiety
114 <220> FEATURE:
W--> 115 <221> NAME/KEY: Xaa
116 <222> LOCATION: (6)..(6)
117 <223> OTHER INFORMATION: Xaa = any number of repeats of amino acids 1-5
119 <400> SEQUENCE: 5
W--> 121 Gly Gly Gly Gly Ser Xaa
122 1 5
125 <210> SEQ ID NO: 6
126 <211> LENGTH: 12
127 <212> TYPE: PRT
128 <213> ORGANISM: Unknown
130 <220> FEATURE:
131 <223> OTHER INFORMATION: linker moiety
133 <400> SEQUENCE: 6
135 Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser
136 1 5 10
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 14
141 <212> TYPE: PRT
142 <213> ORGANISM: Unknown
144 <220> FEATURE:
145 <223> OTHER INFORMATION: linker moiety
147 <400> SEQUENCE: 7
149 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
150 1 5 10

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Input Set : A:\034123-109.ST25.txt
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153 <210> SEQ ID NO: 8
154 <211> LENGTH: 18
155 <212> TYPE: PRT
156 <213> ORGANISM: Unknown
158 <220> FEATURE:
159 <223> OTHER INFORMATION: linker moiety
161 <400> SEQUENCE: 8
163 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr
164 1 5 10 15
167 Lys Gly
171 <210> SEQ ID NO: 9
172 <211> LENGTH: 18
173 <212> TYPE: PRT
174 <213> ORGANISM: Unknown
176 <220> FEATURE:
177 <223> OTHER INFORMATION: linker moiety
179 <400> SEQUENCE: 9
181 Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
182 1 5 10 15
185 Lys Gly
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 14
191 <212> TYPE: PRT
192 <213> ORGANISM: Unknown
194 <220> FEATURE:
195 <223> OTHER INFORMATION: linker moiety
197 <400> SEQUENCE: 10
199 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
200 1 5 10
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 30
205 <212> TYPE: PRT
206 <213> ORGANISM: Unknown
208 <220> FEATURE:
209 <223> OTHER INFORMATION: HA2 TAT peptide
211 <400> SEQUENCE: 11
213 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
214 1 5 10 15
217 Met Ile Asp Gly Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
218 20 25 30
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 20
223 <212> TYPE: PRT
224 <213> ORGANISM: Unknown
226 <220> FEATURE:
227 <223> OTHER INFORMATION: HA2 peptide
229 <400> SEQUENCE: 12
231 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly
232 1 5 10 15

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Input Set : A:\034123-109.ST25.txt.

Output Set: N:\CRF4\01032006\J561092.raw

235 Met Ile Asp Gly
 236 20
 239 <210> SEQ ID NO: 13
 240 <211> LENGTH: 418
 241 <212> TYPE: DNA
 242 <213> ORGANISM: Unknown
 244 <220> FEATURE:
 245 <223> OTHER INFORMATION: cDNA
 247 <400> SEQUENCE: 13

248	gcgttagagga	tcgagatctc	gatcccgca	aattaatacg	actcaactata	ggggaaattgt	60										
250	gagcggataa	caattccct	ctagaaataa	ttttgtttaa	ctttaagaag	gagatatacc	120										
252	atgggcagca	gccatcatca	tcatcatcac	agcagcggcc	tggtgccgca	cggcagccat	180										
254	atgaggaaga	agcggagaca	gacgacgaaga	ggctcggatc	cgaattcgg	ctccgtcgac	240										
256	aagcttgcgg	ccgcactcga	gcaccaccac	caccaccact	gagatccggc	tgctaacaaa	300										
258	gcccgaaagg	aagctgagtt	ggctgctgcc	accgctgagc	aataactagc	ataacccctt	360										
260	ggggcctcta	aacgggtctt	gaggggtttt	ttgctgaaag	gaggaactat	atccggat	418										
263	<210>	SEQ ID NO:	14														
264	<211>	LENGTH:	418														
265	<212>	TYPE:	DNA														
266	<213>	ORGANISM:	Unknown														
268	<220>	FEATURE:															
269	<223>	OTHER INFORMATION:	cDNA														
271	<400>	SEQUENCE:	14														
272	cgcacatctcct	agctctagag	ctagggcgct	ttaattatgc	tgagtgat	cccttaaca	60										
274	ctcgccattt	gttaagggaa	gatctttattt	aaaacaaattt	gaaattcttc	ctctatatgg	120										
276	tacccgtcgt	cggtagtagt	agtagtagt	tgcgtccgg	accacggcgc	gccgtcggt	180										
278	tactccttct	tcgcctctgt	cgctgcttct	ccgagcctag	gcttaagctc	gaggcagctg	240										
280	ttcgaacgccc	ggcgtgagct	cgtggtggt	gtggtggtga	ctctaggccg	acgattgttt	300										
282	cgggcttcc	ttcgactcaa	ccgacgacgg	tggcactcg	ttattgatcg	tattgggaa	360										
284	ccccggagat	ttgcccagaa	ctccccaaaaa	aacgactttc	ctccttgata	taggccta	418										
287	<210>	SEQ ID NO:	15														
288	<211>	LENGTH:	53														
289	<212>	TYPE:	PRT														
290	<213>	ORGANISM:	Unknown														
292	<220>	FEATURE:															
293	<223>	OTHER INFORMATION:	TAT peptide														
295	<400>	SEQUENCE:	15														
297	Met	Gly	Ser	Ser	His	His	His	His	His	His	Ser	Ser	Gly	Leu	Val	Pro	
298	1				5					10				15			
301	Arg	Gly	Ser	His	Met	Arg	Lys	Lys	Arg	Arg	Gln	Arg	Arg	Arg	Gly	Ser	
302					20				25				30				
305	Asp	Pro	Asn	Ser	Ser	Ser	Val	Asp	Lys	Leu	Ala	Ala	Ala	Leu	Glu	His	
306					35			40				45					
309	His	His	His	His	His												
310		50															
313	<210>	SEQ ID NO:	16														
314	<211>	LENGTH:	360														
315	<212>	TYPE:	DNA														
316	<213>	ORGANISM:	Unknown														

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Input Set : A:\034123-109.ST25.txt

Output Set: N:\CRF4\01032006\J561092.raw

318 <220> FEATURE:
 319 <223> OTHER INFORMATION: cDNA
 321 <400> SEQUENCE: 16
 322 gcgttagagga tcgagatctc gatcccgcgaa aattaatacg actcaactata gggaaattgt 60
 324 gagcggataaa caattccct ctagaaataaa ttttgtttaa cttaagaag gagatataacc 120
 326 atgggcagga agaagcggag acagcgacga agaggccata tggctagcat gactgggtgga 180
 328 cagcaaatgg gtcgggatcc gaattcgagc tccgtcgaca agttgcggc cgcaactcgag 240
 330 caccaccacc accaccactg agatccggct gctaacaag cccgaaagga agctgagttg 300
 332 gctgctgcca ccgctgagca ataactagca taacccttg gggcctctaa acgggtcttg 360
 335 <210> SEQ ID NO: 17
 336 <211> LENGTH: 360
 337 <212> TYPE: DNA
 338 <213> ORGANISM: Unknown
 340 <220> FEATURE:
 341 <223> OTHER INFORMATION: cDNA
 343 <400> SEQUENCE: 17
 344 cgcacatctcct agctcttagag cttagggcgct ttaattatgc tgagtgatata ccccttaaca 60
 346 ctcgcctatt gttaaaggaa gatctttatt aaaacaaatt gaaattcttc ctctatatgg 120
 348 taccgcgttct tcttcgcctc tgcgtgtgtc tctccgtat accgatcgta ctgaccacct 180
 350 gtcgtttacc cagccctagg cttaaagctcg aggcaagctgt tcgaacgccc gcgtgagctc 240
 352 gtgggtgggtgg tgggtgggtgac tctaggccga cgattgttgc gggctttct tcgactcaac 300
 354 cgacgacgggt ggcgactcgat tattgatcgat attggggaaac cccggagatt tgcccagaac 360
 357 <210> SEQ ID NO: 18
 358 <211> LENGTH: 46
 359 <212> TYPE: PRT
 360 <213> ORGANISM: Unknown
 362 <220> FEATURE:
 363 <223> OTHER INFORMATION: TAT peptide
 365 <400> SEQUENCE: 18
 367 Met Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly His Met Ala Ser
 368 1 5 10 15
 371 Met Thr Gly Gly Gln Gln Met Gly Arg Asp Pro Asn Ser Ser Ser Val
 372 20 25 30
 375 Asp Lys Leu Ala Ala Ala Leu Glu His His His His His His
 376 35 40 45
 379 <210> SEQ ID NO: 19
 380 <211> LENGTH: 1437
 381 <212> TYPE: DNA
 382 <213> ORGANISM: Unknown
 384 <220> FEATURE:
 385 <223> OTHER INFORMATION: cDNA
 387 <400> SEQUENCE: 19
 388 gcgcgggtga tgccggccac gatgcgtccg gcgttagagga tcgagatctc gatcccgcgaa 60
 390 aattaatacg actcaactata gggaaattgt gagcggataaa caattccct ctagaaataaa 120
 392 ttttgtttaa cttaagaag gagatataacc atgggcagga agaagcggag acagcgacga 180
 394 agaggccata tggctagcat gactgggtgga cagcaaatgg gtcgggatcc gaattccatg 240
 396 tccaatttac tgaccgtaca cccaaaatttg cctgcattac cggtcgatgc aacgagtgtat 300
 398 gaggttcgca agaacctgtat ggacatgttc agggatcgcc aggcgttttc tgagcataacc 360
 400 tggaaaatgc ttctgtccgt ttgccggcgt ggtgcaagtt gaataaccgg 420

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/03/2006
PATENT APPLICATION: US/10/561,092 TIME: 11:34:58

Input Set : A:\034123-109.ST25.txt
Output Set: N:\CRF4\01032006\J561092.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/561,092

DATE: 01/03/2006

TIME: 11:34:58

Input Set : A:\034123-109.ST25.txt

Output Set: N:\CRF4\01032006\J561092.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:115 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0